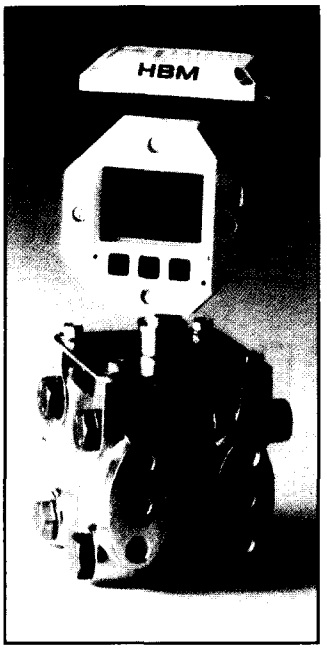
HBM's differential pressure measurement solution



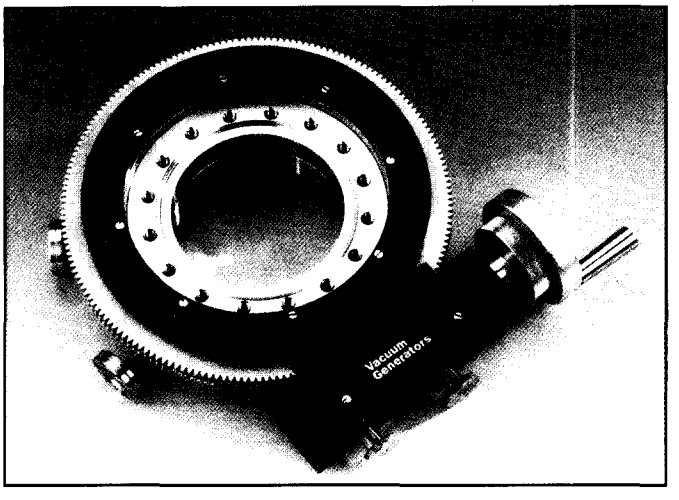
With low installation costs and virtually maintenance free operation, HBM claims that their new PDE300 differential pressure instrument offers an economical solution for sealing tests and level measurement, particularly on enclosed pressurised containers. The instrument can also be used in conjunction with an orifice plate for flow measurement.

The PDE300 comes with a choice of ten ranges covering full scale values between 100 mbar and 2 bar. It can be supplied for battery operation or for use with two-wire and three-wire techniques (4 mA to 20 mA).

■ *Contact: Bill Jeeves, HBM, a division of Spectris (UK) Limited, Harrow Weald Lodge, 92 Uxbridge Road, Harrow, Middx HA3 6BZ, UK.*

Precision rotating platforms

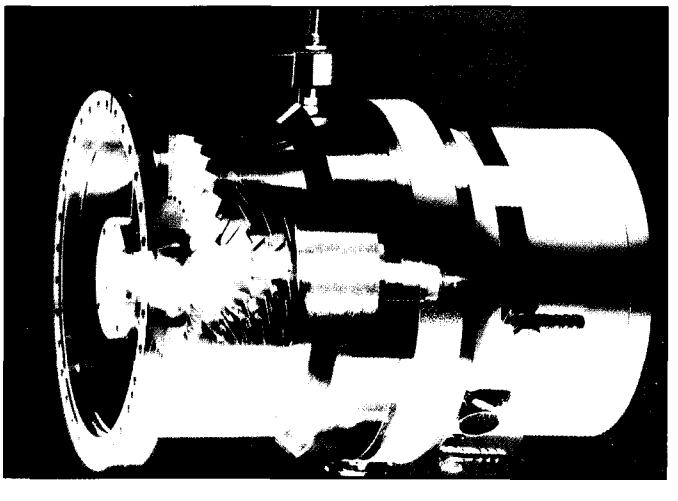
For UHV analysis requiring extra mobility, eucentric motion about the mounting flange axis is now possible with Vacuum Generators; new RP100 series rotating platforms. Designed specifically for UHV equipment, such as cryostats and sample manipulators, these rotating platforms allow 360° continuous concentric polar rotation and have a clear bore of 102 mm.



The RP100 series provide primary rotation for a range of components in mix and match applications. Used in pairs, the RP makes an ideal seal for rotation of UHV chambers, for example around incoming synchrotron beams. Other applications include sample imaging (XPS, AES or SIMS), structural and ion/neutral/atom scattering experiments.

■ *Contact: Kevin Nicholson, Vacuum Generators, Maunsell Road, Hastings, East Sussex, TN38 9NN, UK. Email: knichols@vacgen.fisons.co.uk*

New magnetic bearing turbodrag pump



Developed specifically for extremely aggressive applications where corrosive gases are used – such as semiconductor etching and CVD – Pfeiffer Vacuum's new 1600 MC Magnetic Bearing Turbomolecular Drag pump is both maintenance and oil-free.

A combination of turbomolecular and Holweck pump principles provide the basis of the TurboDrag technology. The combination enables the new 1600 MC TurboDrag pump to achieve an ultimate vacuum of $< 10^{10}$ mbar and handle high gas throughputs at high inlet pressures with a backing pressure of up to 12 mbar.

An optional temperature management systems prevents the condensation of corrosive gases in the pump. Where process by-products are deposited on the rotor the active magnetic bearing system is automatically balanced by the Digital Magnetic Bearing Controller. The pump can be installed in an orientation allowing versatile integration into a process system.

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